UE Experimental physics - PHY438 -

Niveau d'étude
Bac ou équivalent

ECTS
3 crédits

Crédits ECTS Echange
3.0

Composante
Département de la licence sciences et technologies (DLST)

Volume horaire
32h

Période de l'année
Printemps (janv. à avril/mai)

- **Langue(s) d'enseignement:** Français, Anglais
- **Ouvert aux étudiants en échange:** Oui
- **Crédits ECTS Echange:** 3.0
- **Code d'export Apogée:** PAX4PH98

Présentation

Description

Practical courses.

The 8 lab sessions have been chosen to cover a wide range of experimental topics, instrumentation and methodological approaches. Recap sheets will be requested at each session for a regular follow-up of the learning progress.

Objectifs

Educational objectives of the module:

- *Acquire experimental skills in different domains of physics, related to other L2 courses: energetics, electromagnetism, acoustic waves, wave optics*

- *Discover or illustrate physical phenomena by experiment.*

Heures d'enseignement

UE Experimental topics - TP	TP	32h

Pré-requis recommandés

These lab sessions address different domains of physics (calorimetry, electrokinetics, induction, point mechanics, geometrical optics) for which the (theoretical) background is supposed to be known.

Having already used measuring devices (oscilloscope, multimeter, etc.) and having some basic knowledge on how to treat experimental data (in particular about uncertainties) is also considered as a prerequisite.

Software: data graphing and analysis

Période : Semestre 4

Évaluation initiale / Session principale - Épreuves

Libellé	Nature de l'enseignement	Type d'évaluation	Nature de l'épreuve	Durée (en minutes)	Nombre d'épreuves	Coefficient de l'épreuve	Remarques

Bibliographie

https://chamilo.univ-grenoble-alpes.fr/courses/PHY408/index.php?id_session=0

Infos pratiques

Contacts

Responsable pédagogique

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Campus

Grenoble - Domaine universitaire